\$/103/63/024/004/014/014 Some problems ... D201/D308 1) The information obtained from the measuring instrument with independent measurements and with a finite number N of quantization levels of the scale, is a monotonic function of this number N and tends asymptotically to a limit for an even distribution of the measured quantity and for an even and normal disturbance distribution. 2) The maximum amount of information is systems in which the amount of errors introduced at preceding stages is independent of the quantization region, is a function of statistical characteristics of these errors only. 3) For normal magnitudes of the quantization region of (0.5-2) a, where 'a' is a constant, determining the even error distribution, 90 to 75% of maximum possible information can be obtained from the indicating instrument, the mean square value of error being 140 to 240% of its minimum. 4) From the point of view of information indicators, the increase in the number of quantization regions is always useful irrespective of noise (provided this does not increase the amount of noise itself). There are 2 figures. July 9, 1962 Card 2/2

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ACCISSIGN MR. AFSOOM677 S/O115/6M/COO/COO9/COO58/COO59 70
AUTHOR: none

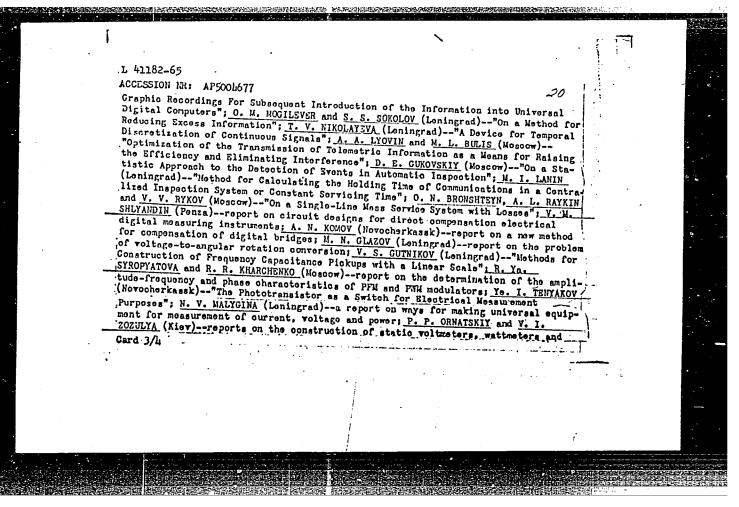
TITLE: Fourth meientific and technical conference on "Cybernetics for the improvement of measurement and inspection methods"

SOURCE: Invertical nays tekhnika, no. 9, 1964, 58-59

TOPIC TAGS: cybernotics, electric measurement, wheeteric quantity instrument, digital computer, electronic equipment, electric engineering conference

ABSTRACT: The conference was held 1-4 July at the All-Union Scientific Research Institute of Metrology by the Section of Electrical Measurements of the Council on the Problem of "Solontific Instrument Making" of the State Committee on Coordination of Scientific Research Hork in the OSEN tegether with the All-Union Scientific Research Hork in the OSEN tegether with the All-Union Scientific Research Hork in the OSEN tegether with the All-Union Scientific Research Hork in the OSEN tendency like the All-Union Scientific Research Hork in the OSEN tendency like the All-Union Scientific Research Hork in the OSEN tendency like the All-Union Scientific Research Hork in the OSEN tendency like the All-Union Scientific Research Hork in the OSEN tendency like the All-Union Scientific Research Hork in the OSEN tendency like the All-Union Scientific Research Hork in the OSEN tendency like the All-Union Scientific Research Hork in the OSEN tendency like the All-Union Scientific Research Hork in the OSEN tendency like the All-Union Scientific Research Hork in the OSEN tendency like the All-Union Scientific Research Hork in the OSEN tendency like the All-Union Scientific Research Hork in the OSEN tendency like the All-Union Scientific Research Hork in the All-Union Scientific Research Hork i

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	Devices"; S. N. MANDEL'SHTAN (Lo measurement instruments; P. F. P. using Fourier transforms on electronic problems of optimum filtering for I. B. CHELPANOV"Calculation of Two-Channel System which Uses Sir. A. POLUSKTOV (Loningrad)"Optic for Correction of Non-linearity (Taganrog)"A Method for Statis Electrical Measuring Instruments Converter with Automatic Error Coll. A. YANOVICH (Kiev)"Automatic Signals of Complex Radio and Electricias as an Independent Sci"On the Problem of Effoctive Non-	mination of the Criteria of Accuracy for mination of the Criteria of Accuracy for mingrad)—report on a new oriterion of PARSHIN (Leningrad)—report on optimization of digital computers; S. P. DMITRIY coningrad)—proposal of a new method for non-stationary random signals and into the Dynamic Cheracteristics of an Optignals from a Position Meter and from a timum Periodic Correction in the Measure WICH (Moscow)—"Analysis and Constructional Scaling for Unitary Codes; G. V. GC tical Optimization in Graduating the So is M. A. ZEKEL'MAN (Moscow)—"Analog-Dicorrection"; B. N. MALINOVSKIY, V. S. KA of Monitoring of the Parameters of the cotronic Squipment"; V. P. PEROV (Moscow ientific Specialization"; Ye. N. GIL'BO—linear Scales"; A. I. MARKELOY (Moscow Results of Measurements Presented in	accuracy of tion when (3Y, G. Ya. solving torference; imum Complex Speed Meter"; oment of ton of Devices RELOVA ales of gital Voltage LENCHUK and fleetrical fleetrical fleetrical fleetrical	
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	vibration amplitude of pre	umatio hammers; L. K. RUKINA and t of a digital compensator for m	noasuring pressure, force,	
	otc.: N. B. DADUKINA (Loni	ngrad) report on a method for d	constructing frequency	
	pickups for gas analysis;	Ye. M. KARPOV, V. A. BRAZHNIKOV alysis and recording of boring s	and B. Yn. LIKHITSINDER	
	PSHENICHNIKOV (Kuybyshov)-	-"A High Spoud Voltage-to-Digita	al Code Converter for ac	7
	Pickups"; G. P. VIKHROV and to-Peak Voltmoter"; and S.	d V. K. ISAYBY (Vilna) "A Highl M. PERSIN (Leningrad) "A Low I	ly Accurate Digital Peak-	
	age Converter."			
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AGCESSION NR: AP4045347 S/0103/64/025/009/1344/1351

AUTHOR: Lanin, M. I. (Leningrad)

TITLE: Evaluation of the methods of establishing connection between the points of a tele-information system

SOURCE: Avtomatika i telemekhanika, v. 25, no. 9, 1964, 1344-1351

TOPIC TAGS: communication link, telemetering

ABSTRACT: A simplified block diagram (see Enclosure 1) is considered which comprises a transmitter of information, a receiver of information, and a storage device; the latter stores the message when the system is busy or when there is no connection between the transmitter and receiver at the time of the information arrival! It is assumed that: (1) The source generates a random Poisson flow of requirements with a parameter  $\lambda$ ; (2) Time  $\tau$  of processing of any message by the receiver is constant; (3) On resuming the channel availability, the message

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ACCESSION NR: AP4045347

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is transmitted from the storage to the receiver only so long as it is necessary.

Three algorithms of establishing connection between the receiver and the storage are considered: (a) message transmission initiated by the storage device; (b) cyclic request by the receiver; and (c) random request by the receiver.

Formulas describing the probability of a structural loss of information are developed for the case of a finite storage capacity, simplest information flow, and constant servicing time. A formula for the average waiting time in an infinite-storage system is also derived. It is proven that, no matter what the finite value of the request time characteristic is, the minimum loss probability and minimum average waiting time cannot be achieved if a random transmission initiated by the sending end takes place. Orig. art. has: 2 figures and 35 formulas.

NO REF SOV: 002

ASSOCIATION: none

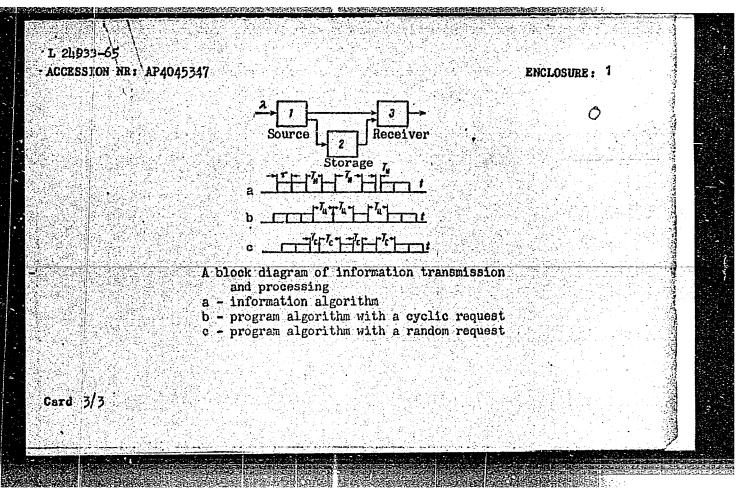
SUBMITTED: 23May63

SUB CODE: DP

ENCL: 01

OTHER: 002

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L 46021-66

ACC NR. AT6012350

SOURCE CODE: UR/0000/66/000/000/0150/0159

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AUTHOR: Lanin, M. I.

ORG: none

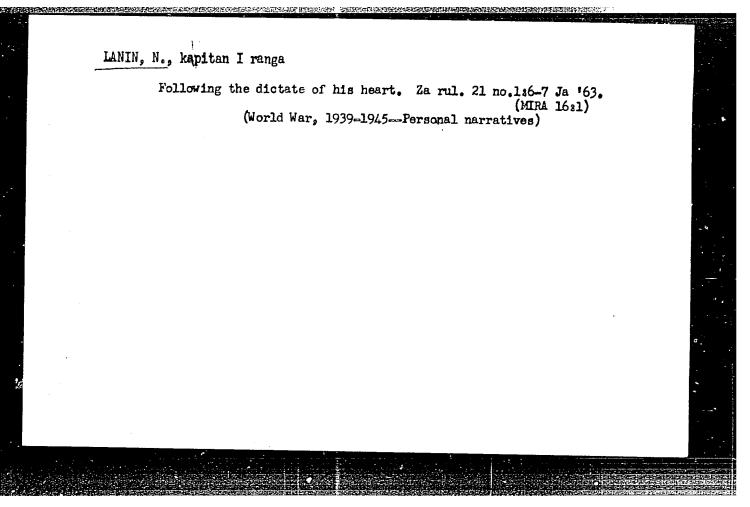
TITLE: Methods of using redundant information compared

SOURCE: Nauchno-tekhnicheskaya konferentsiya po sredstvam promyshlennoy telemekhaniki. Moscow, 1963. Promyshlennaya telemekhanika (Industrial telemechanics); materialy konferentsii. Moscow, Izd-vo Energiya, 1966, 150-159

TOPIC TAGS: signal noise separation, information theory, teleinformation system ABSTRACT: Two methods of redundancy utilization — error detection with RQ and error correction — are compared along the lines indicated by W. R. Cowell (IRE Trans., IT-7, July 1961, no. 3). Although an objective comparison would require taking the traffic capacity into account, a simpler analysis of potentialities of both methods is presented: only probabilities of correct reception are compared. It is found that, with a wide range of messages handled by practical teleinformation systems and with a low-to-medium channel noise level, the RQ error-detection method ensures substantially better noise rejection than the error-correction method, the average time of message correction being the same. Orig. art. has: 20 formulas and 1 table.

SUB CODE #17 / SUBM DATE: 08Jan66 / ORIG REF: 000 / OTH REF: 002

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28(2) AUTHOR:

Lanin, N. D., Engineer

sov/119-59-7-2/18

TITLE:

A Pneumatic Computer of Continuous Operation

PERIODICAL: Priborostroyeniye, 1959, Nr 7, pp 3 - 6; (USSR)

ABSTRACT:

At the Scientific Research Institute for Overall Automation mation (nauchno-issledovatel skiy institut kompletenoy aviomatizatsii) a pneumatic computer of continuous operation using pneumatic regulators of the aggregate unit system (AUS) was developed. The machine was designed for the solving of linear differential equations with constant coefficients, and is suited for the application of similarity of automatic regulating systems. Figure 1 shows the principal elements of this computer, which consists essentially of a summator and an integrator, in form of a scheme. The basic mode of operation of these principal elements is discussed, after which the basic scheme of the integrator is dealt with. The latter consists of an aperiodic element, an amplifying element, and of a summation block, and on the basis of figures 3 and 4 the mode of operation of the integrator is discussed. This computer PVM-1, the entire wiring scheme of which is shown

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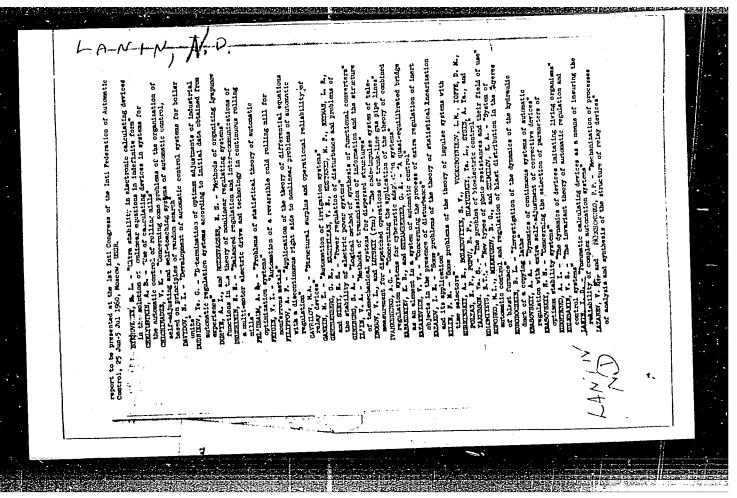
A Pneumatic Computer With Continuous Operation

sov/119-59-7-2/18

in figure 5, is suited for the solution of differential equations of the sixth order. As the computer works with overpressure, the zero-value is adjusted at 0.5 atm. The experimental machine, which is produced at the TsNIIKA, is shown mental machine, which is produced at the TsNIIKA, is shown in figure 7, and in figure 9 the graphical solution, the anaulytical solution, and the solution obtained by the here lytical solution, and the solution obtained by the here described method of a differential equation of the third order are compared, and the maximum error is given as amounting to a compared, and the maximum error is given as amounting to 2.5%. Finally, it is found that the computer PVM-1 is suited for the control of technological processes and may form the for the control of technological processes and may form the basis for the development of control machiner at industrial plants. There are 9 figures.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut kompleksnoy avtomatizatsii (Central Scientific Research Institute for Overall Automation)

Card 2/2



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A disclination of the second s	227	Hampl, S. (Caschoslovakia), Systematic Regulators of the Eficik Flaat 255 Trittanis: Library of Compress (17840.842)		Britall, V. (GDN), Hydraulic and Combined Automatic Regulation Systems 175	THE CHEMIC AND DEPOCHATIC REPUBLIC AND CINCHOSLOVACIA	Processes According to the Dermal Effect of the Reaction	Nebria, V.I., Kii. Kurskuys and In.I. Ostrovniciy, Application of an Extremal Regulator for Controlling and Nagulating Certain Chemical	Anders, V.R., T.K. Dermade, and N.L. Chartes. D.PS-17 Regulating Christopheny With a Phenesics Office:	Taggyrolkys, 1.4. Device for the Application of Passastic External Taggilator on Items with Several Regulating Components	TENTERATIO CHEMPATE Good on Summators 140 Thomas T.C. and A.A. T.Y. Pastantic Throttleins Rally Diagram 154	-	Lania_ILD_ Small Scale Phormatic Continuous Action Calculating Machine 138	Iviicher, Th.I., and E.M. Madibafor. Construction Problems of Parametic 132 Computing Solving Devices	PHRIMATIC CORPOTING-SOLVING AND SCANIZIO DEVICES	Ministo, V.A. AND United Parametto Assembly System - Base of a Complex Automatica in the Petroleum Befining Industry	Servich, E.Ta. KEZA (ROSERVELY SERVOS VERLOTOS ENTOMELES + ROSERV SES Tutomation Plant) Electrosic and Partmatic Regulator	Elyadow, Vid. Miss. Electronic and Durantic refunsion	before or determine one only or word in the party of the party o	Proretelly, T.M. Small Scale Sylvantic Lead Block of Companieston type 00	wot and Hevera Land im Automatic Enquintion Syvems Mechanic Instruments	Tages   No.   Control   Co	Effort Com, term franchisto of Presents of Community of the State of t	Person lines I.I. Presunctio Compensation Pressure and Barefi cation Trais-	est approach to attending problems, so personatives are sentioned, assessment and annual terminal and engineer of the attendant.	tracts in the train, such as the bownstaty or mainly very only results for in apparetion of phenositic derives. Some articles of this collection were written in the derivate and the Caronal Park and wellast a sometic different by Garman Demographs and in Caronal Park and wellast a sometic different by Garman Demographs.	or parametric and hybridic automation equipment is described. An addition to problems based on experiment, the collection also constant of the problems based on experiments, the collection also constant of the problems based on experiments, the collection also constant of the problems of the problems based on experiments, the collection also constant of the problems of the problems based on experiments of the problems of the p	CCTEACE: The collection of 2) articles is a continuation of an earlier work of the Academy of Sciences ISSN, on parentite and hydralic automation systems, published in 1960. I wish seven of repaired connected with the design and operation	PERFORM: This collection of articles is invented for scientific vorkers, industrial designers and engineers interested in automation and telemechanics.	Pesp. Ed.: M.A. Aystman, Doctor of Technical Sciences, Francesor; Ed. of runtishing Rouse: A.A. Tal'; Tech. Ed.: S.G. Tikhosirova.	Vegress porman i gidro- artematiki (Probless in Pasamile and Epirallie Automatica) Namens, 1960. 211 p. Errata slip insertad. 4,500 copies printed.	Abstraty and SSSR. Institut arcmatth: I teleschanth. Seminar poperacyldravilcheskoy arcmatthe. 2d and 3d session	TENER I BOOK EXPLOITATION SOV/1671	

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1013, 1031, 1121 25544 28.2000

8/123/61/000/011/031/034 A004/A101

AUTHOR:

Lanin, N. D.

TITLE:

Small-size pneumatic computer of continuous action and lag unit

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 11, 1961, 9, abstract 11Zh74 (V sb. "Vopr. pnevmo- i gidroavtomatiki". Moscow, AN SSSR, 1960, 138-147)

The author describes a small-size computer for the solution of TEXT: ordinary linear differential equations of the type

 $a_n \frac{d^n P}{dt^n} + a_{n-1} \frac{d^{n-1} P}{dt^{n-1}} + \dots + a_1 \frac{dP}{dt} + a_0 P = P_{disturb.}(t).$ 

The computer contains: adder based on the stress compensation principle and equipped with feedback units in the form of diaphragm chambers; integrating unit with aperiodic component in the form of a throttle and pneumatic capacity; differentiating component made on the basis of the AYC (AUS) adder - type 2P5-25A (2RB-25A). The author presents three variants of constructing the pneumatic lag units: as a network of n-identical components; in the form of servo chambers

Card 1/2

32576 S/621/61/000/000/011/014 D234/D303

9,7000 (also 1159)

AUTHORS:

Lanin, N.D., and Pashintseva, V.I.

TITLE:

Methods of constructing pneumatic computers of conti-

nuous action and ways of utilizing them

SOURCE:

Nauchno-tekhnicheskoye obshchestvo priborostroitel'noy promyshlennosti. Primeneniye vychislitel noy tekhniki dlya avtomatizatsii proizvodstva. Trudy soveshchaniya, provedennogo v oktyabre 1959 g. Ed. by V.V. Solodovni-

kov. Moscow, Mashgiz, 1961, 445 - 457

TEXT: The authors give a detailed general description of the main units of pneumatic computers. The integration bloc consists of a non-periodical link with positive feedback, in the form of a constant resistance connected in series with a variable capacitance. Equations of motion of the bloc are discussed. Three variants of the differentiating bloc are considered and their transfer functions quoted. The most usual kinds of summation bloc utilize the addition of forces due to input pressures in membrane chambers; the

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Methods of constructing pneumatic ...

32576 S/621/61/00U/000/011/014 D234/D303

authors state that addition of pressures in the chamber between throttles is more economical, and recommend the use of the cascade principle. The coefficient bloc is described. On the basis of the above units, a pneumatic computer was constructed, of which two modifications allow the solution of differential equations of the 6th order and the third modification those of the 9th order. A general diagram of the computer is given. The error in the solution does not exceed 3 %. There are 6 figures and 6 Soviet-bloc references.

X

Card 2/2

29749

9,7200

S/194/61/000/006/006/077 D201/D302

AUTHOR:

Lanin, N.D.

TITLE:

A pneumatic continuous action computer and delay bloc of small overall dimensions

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1961, 7, abstract 6 B56 (Vopr. pnevmo-i gid-roavtomatiki, M., AN SSSR, 1960, 138-147)

TEXT: A description is given of a pneumatic computer  $\Pi BM-2$  (PVM-2) designed at the Gentral Scientific and Research Institute of Complex Automation. The computer is designed for solving ordinary linear differential equations up to the 6th order with constant coefficients, with an accuracy up to 3%. The addition of pressures is achieved by means of a diaphragm system utilizing the principle of compensation of forces. Integration is carried out by means of a system containing series-connected pneumatic resistances (throttle) in the form of a capillary 0.1 mm diameter and 25 mm in length,

Card 1/2

**APPROVED FOR RELEASE: 06/20/2000** 

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A pneumatic continuous action...

whose working volume may be varied to change the time constant within the limits 2 to 200 cm<sup>3</sup>, an amplifying stage with gain 1 and a type BC-34A (BS-34A) adder (a standard adder of the automatic control system). The linearity of the operation of integration is retained at frequencies up to 3rad/sec. The supply of the machine blocs is from a supply line having a pressure of 1.4 atm and the operating range variation of magnitudes is 0.25 to 0.75 atm, the zero level being 0.5 atm. The dimensions of the machine PVM-2 are 600 x 420 x 450 mm. The description is given of a differentiating network together with 3 methods of designing pneumatic delay blocs. 9 figures. 2 references. Abstracter's note: Complete

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40301 S/194/62/000/006/021/232 D413/D308

AUTHORS:

Lanin, N.D., and Pashintseva, V.I.

TITLE:

Design techniques for continuously-operating pneumatic

computers and their applications

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1962, abstract 6-1-130 n (V sb. Primeneniye, vychisl. tekhn. dlya avtomatiz. proiz-va, M., Mashgiz, 1961, 445-457)

TEXT: It is pointed out that the expansion of design work on pneumatic computers is related to their advantages as compared with other types of equipment; reliability in operation, simplicity of construction, temperature invariance of characteristics, fire and explosion safety. Pneumatic computers whose principle of action is based on force compensation are considered. Basic elements of a pneumatic computer are described: integrating, differentiating, summing, and coefficient blocks. The integrating pneumatic block is designed in the form of an aperiodic chain with feedback, which is analogous to an electrical circuit and is realized as a fixed re-Card 1/3

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Design techniques for continuously-...

sistance, i.e. throttle connected in series with a variable pneumatic capacitance. The fixed resistance is constructed as a capillary about 0.1 mm in diameter and 20-30 mm long. The variable capacitance consists of a cylindrical body with a movable piston inside it. The integrating block does not invert the sign of the input signal. The working range of pressure variation was taken as 0.25 - 0.75 kg/cm2, with 0.5 kg/cm2 corresponding to zero. The differentiating block uses a chain with reduced pressure drop across a throttle. The summing block uses the addition of forces due to the input pressures in diaphragm chambers. A description is given of a pneumatic computer designed with these components, intended for the investigation of low frequency systems and processes; the maximum working frequency is about 1 c/s; integrating time is unlimited and there is no zero drift in the elements. The computer can solve systems of differential equations up to and including 9th order. It consists of nine integrating blocks, 18 coefficient blocks, and a main adder with 12 inputs. It is controlled by opening and closing valves. The solution of a problem on the pneumatic computer can be carried out both in the natural timescale and in an altered time-scale. The output signal in the form of air pressure can be recorded either on card 2/3

S/194/62/000/006/021/232
Design techniques for continuously-... D413/D308

a pneumatic instrument or, by means of a pneumatic converter, on an electronic recorder (oscillograph). The error in the solution ≤ 3 % 6 figures, 6 references. [Abstracter's note: Complete translation.]

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ACCESSION NR: AT3012146

8/2967/63/000/000/0354/0360

AUTHOR: Lanin, N. D.

TITLE: Pneumatic lag unit and functional transformer

SOURCE: Voprosy\* vy\*chislitel'noy matematiki i vy\*chislitel'noy tekhniki, Moscow, 1963, 354-360

TOPIC TAGS: pneumatic lag, complex automation, storage system, control system, integrating system, pneumatic relay, step function, piecewise linear function, functional transformation

ABSTRACT: The pneumatic lag unit in the pneumatic model equipment assembly at the Tsentral'ny\*y nauchno-issledovatel'skiy institut kompleksnoy avtomatizatsii (TsNIKA) (Central Scientific Research Institute of Complex Automation (TsNIKA) has been described in detail. It consists of a storage system, a control system, and an integrating system. The control system has pneumatic relays connected in series through two tubes. To these tubes are connected control lines coming from a linear oscillation generator. The operation principle is outlined, and it is shown that the input function  $P_{in}$  is obtained as a step-function approximation with a time shift  $\tau - P_{ex}^0$ . To reduce errors, the output may be given as a piecewise linear Cord 1/3

#### ACCESSION NR: AT3012146

approximation. The instrument has the capability of constructing functional transformations for two- or multiple-argument functions. An example is given for reproducing the function z = f(x,y), approximating it by a plane parallel to x-y.

The function is represented by  $z = f(x_i, y_i)$ :  $i = 1, 2, 3, ..., n_i$  and a block schematic

for its transformation given in Fig. 1 of the Enclosure. Orig. art. has: 13 formulas and 4 figures.

ASSOCIATION: none

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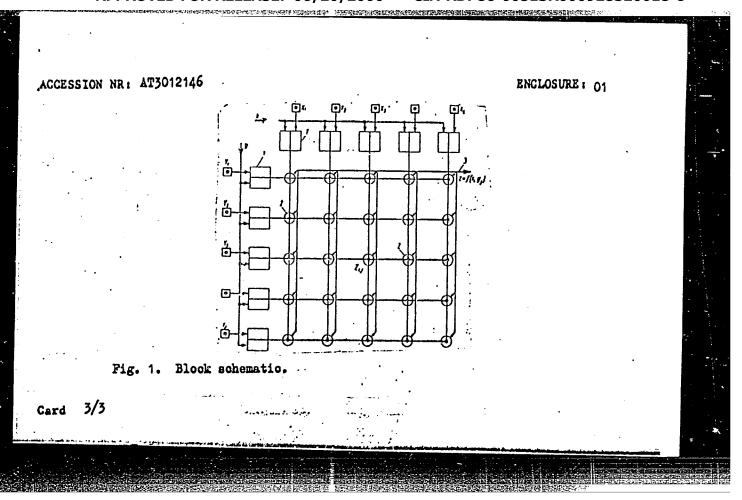
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OTHER: 000

Card 2/3



8/0000/64/000/000/0090/0095

ACCESSION NR: AT4042441

AUTHOR: Lanin, N. D.

TITLE: Automated control station for pneumatic regulators

SOURCE: Vsesoyuznoye soveshchaniye po pnevmo-gidravlicheskoy avtomatike. 5th, Liningrad, 1962. Pnevmo- i gidroavtomatika (Pneumatic and hydraulic control): materialy\* soveshchaniya. Moscow, Izd-vo Nauka, 1964, 90-95

TOPIC TAGS: automation, control system, switching operation, automated control station, pneumatic control system, pneumatic regulator, remote control

ABSTRACT: The article deals with automated control stations designed to effect the transition from automatic control of the operating mechanism (from the regulator) to remote control and vice versa. The author notes that these transition or switch-over operations normally require considerable time and great care and attention on the part of the operating personnel. At the same time, the probability of error is particularly high, this being of special significance in the case of switchover from automatic control to remote control in emergency situations. For the automation of these switch-over operations, the Tsentral'ny\*y nauchno-issledovatel'skiy institut kompleksnoy avtomations.

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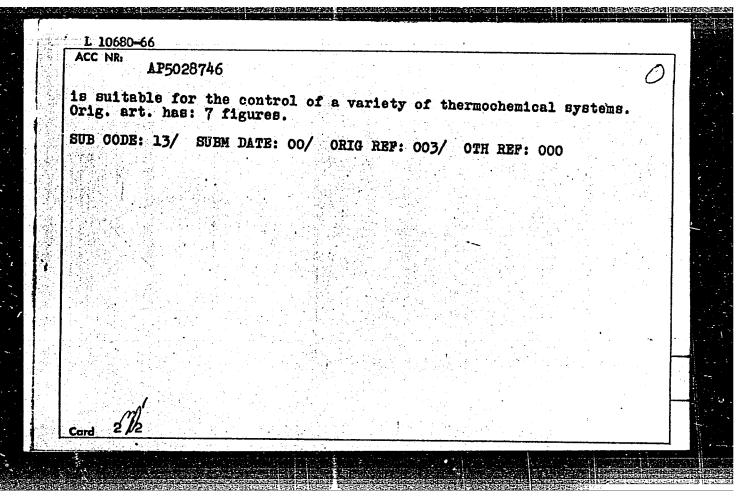
ACCESSION NR: AT4042441

zatsii (Central Scientific Research Institute for Complex Automation) (TSNIIKA) has developed a control system which is available in two versions: (1) with a variable rate of change of the control signal; (2) with a constant rate of change of the control signal. Both types of control stations are described, and the operating principle underlying both is explained in detail. It is pointed out that the assembly which determines the structural arrangement of the station is the servo device, which creates the possibility of memorizing the continuous pneumatic signal for an indefinite period of time with no control signal present, as well as the possibility of varying this pressure when the control signal is received. Some possible versions of structural arrangements of these servo mechanisms are considered; these include a mechanism with a servo jet, a mechanism with comparison units and an integrator-based servo mechanism. The author demonstrates that the automated pneumatic regulator control station is capable of solving the extremely important problem of increasing the reliability of automatic regulation systems. The general principles, presented in this paper, for the design of devices of this type can be employed in other systems as well, together with regulators having a continuous output signal. Orig. art has: 6 figures.

Card 2/3

ACCESSION NR: AT4042441
ASSOCIATION: none
SUBMITTED: 29Jan64
SUB CODE: IE
NO REF SOV: 002
OTHER: 000

EWT(d)/EWT(m)/EWP(v)/EWP(j)/EWP(k)/EWP(h)/EWP(1) L 10680-66 UR/0096/65/000/012/0026/0032 ACC NR: AP5028746 N.D. (Candidate of Tech. Sci.); Nikolayev AUTHOR: Lanin, ORG: Central Research Institute for Complex Automation (Tsentral'nyy nauchno-issledovatel'skiy institut kompleksnoy avtomatizatsii) TITLE: Use of pneumatic means in automation systems for thermochemical processes SOURCE: Teploenergetika, no. 12, 1965, 26-32 TOPIC TAGS: automatic control system, pneumatic control system, thermodynamic process, water purification, thermochemistry, thermoelectric power plant ABSTRACT: The article presents a detailed description of a pneumatic system for the control of the water treatment installation of a thermoelectric plant. Complete flow diagrams are shown for the operating pneumatic units as well as for the calculating circuits. The "Parus" system described here is built on the module-block principle. The modules are constructed on separate base plates, and commutation between the modules is effected by polyvinyl chloride tubing. Widely separated blocks are connected by pne matic cable. It is stated that one of these systems has been installed in one of the thermoelectroic plants of the Moscow power system and it is concluded that this system UDC: 621.187.12:65.011.56



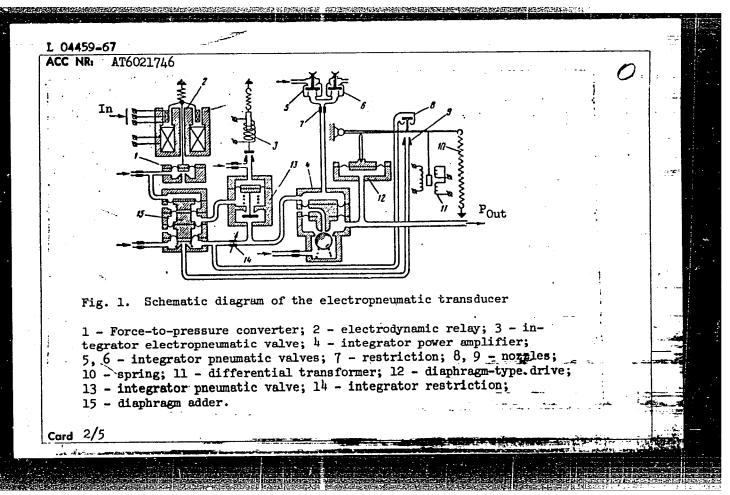
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L 7036-66 EWT(d)/EEC(k)-2/T/EWP(1)BB/GG ACC NR: AP5026813 SOURCE CODE: UR/0286/65/000/017/0093/0093 AUTHOR: Lanin, N. D.: Barskiy, ORG: none TITLE: A multichannel pneumatic system for information transmission with frequency division of channels. Class 42, No. 174444 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 17, 1965, 93 TOPIC TAGS: pneumatic computer, pneumatic device, information processing ABSTRACT: This Author's Certificate introduces: 1. A multichannel pneumatic system for infermation transmission with frequency division of channels. The unit contains carrier frequency oscillators, modulators, a linear mixer, band filters and demodulators. The pneumatic communication lines are multiplexed by using a pneumatic filter in the system and also an adder connected to a multiplier. The output from the multiplier is the output for the entire system. This output is connected to two aperiodic sections, and the outputs from these sections are connected to the adder. 2. A modification of this system which produces sinusoidal oscillations. The pneumatic modulator-generator contains the adder and servochamber. The servochamber nozzle is connected to the adder output, and the transmission line for the signal which determines the amplitude of the output oscillations is connected to the nega-Card 1/2 UDC: 681.142.07

	the adder and through a fixed resistance to the nozzle compartment. n of this system in which the pneumatic demodulator contains a relay	
Tomicotca III bill .	iteration scheme, and a diode which is connected to the control elay and through a resistance to the atmosphere.	<b>7</b>
SUB CODE: DP/		
	SUBM DATE: 30Jan64/ ORIG REF: 000/ OTH REF: 000	
	- 사람들 프로젝트 하는 이 같은 어로워서 이 장하다. 이 글 놀라가 그렇	
	보이 동안하는 말할 수 있어요? 사람은 사람들은 보고 있다면 하는데 보이다.	
	- 기본 중인 사용 시간 교육 전체 보통에 기본을 보고 있다. 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	<b>(</b>
	교통하는 것이 있다면 함께 되었다. 교육교육 교육 기계 교육	2
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$\circ$	보고 발표하는 얼마는 생물이 불빛하는 보고 가지 않는 것이 되었다. 그는 사람들이 되었다.	3

ACC NRI AP5028512	SOURCE CODE: UR/0286/65/000/020/0097/0097
AUTHORS: Vaynshteyn-Kovale	evskiy, G. Ye.; Gorokhov, V. M.; Koynash, P. I.; Lanin,
N. D. Jy	44 44 44 57
ORG: none	$\mathcal{B}$
TITLE: A pneumatic lever m	multiplication unit. 4 Class 42, No. 175745 Zannounced by
Experimental Construction B	Bureau "Teploavtomatii" (Opytno-konstruktorskoye byuro Hentific Research Institute of Comprehensive Automation
	edovatel skiy institut kompleksnoy avtomatizatsii) / 44
	en de la companya de
SOURCE: Byulleten' izobret	teniy i tovarnykh znakov, no. 20, 1965, 97
TOPIC TACS: pagemetic comp	puter, pneumatic device, positive feedback
photing of comp	16.44
ABSTRACT: This Author Cert	tificate presents a pneumatic lever multiplication unit.
The unit consists of two in	nput sylphon bellows, three bars, a balance arm, a movable
support, a feedback bellows	s, a pneumatic amplifier with a controllable nozzle, and order to multiply pneumatic signals that vary on both side
of an arbitrary zero, takin	ng into account the sign of the output signal, the upper
part of the moving support	is made in the form of two bent elbows, so that the movin
support can be placed above	e or below the turning axis of the balance arm. The bars
have joints on their ends a	and can impart forces of both signs.
Cord 1/1	UDC: 681.142—525

ACC NR: AT6021746		/0000/66/000/000/0211/0213
AUTHOR: Gorokhov, V. M.; I	Lanin, N. D.; Kronberg, A. V.	39
ORG: none	77.2).	
TITLE: An electropneumatic	transducer \0	
SOURCE: AN SSSR. Institute automation). Moscow, Izd-vo	avtomatiki i telemekhaniki. Pnevm o Nauka, 1966, 211-213	oavtomatika (Pneumatic
TOPIC TAGS: pneumatic serv	vomechanism, pneumatic control sys	tem, pneumatic device
transducer designed for can electron converter into	cribe the operating principles of onverting continuous or on-off ou continuous pneumatic signals vasducer incorporates an electric-teumatic integrator.	tput signals of rying within
	of the electropneumatic transduce electric input signal is converte	
Card 1/5		



#### L 04459-67 ACC NR: AT6021746

electrodynamic relay 2 into a proportional force and then, through element 1, into a pressure difference proportional to the input signal. This pressure is passed on to the diaphragm adder 15 of the integrator. Variable restricter 14, the opening of which determines the time constant of the integrator, is located at the output of the adder. Electropneumatic valve 3 sets the output pressure (position of the servo mechanism) during power failure in the electrical circuit and during the transition to manual remote control. When this valve is de-energized, the line pressure which controls the operation of pneumatic valve 13 drops and the latter cuts off the feedback chamber of the adder, thus excluding the possibility of integration of random input signals.

During manual remote-control operation, an electric signal is sent simultaneously to the moving coil of the electrodynamic relay and to electropneumatic valve 3; as a result, the signal is integrated while being transmitted. A local manual change of pressure is accomplished by means of pneumatic valves 5 and 6, which can be used either to increase the pressure in the input chamber of power amplifier 4 through the use of the high-pressure line or to relieve it. The rate of change of the output pressure is controlled by restriction 7. The feedback signal is picked off from dif-

Card 3/5

#### L 04459-67

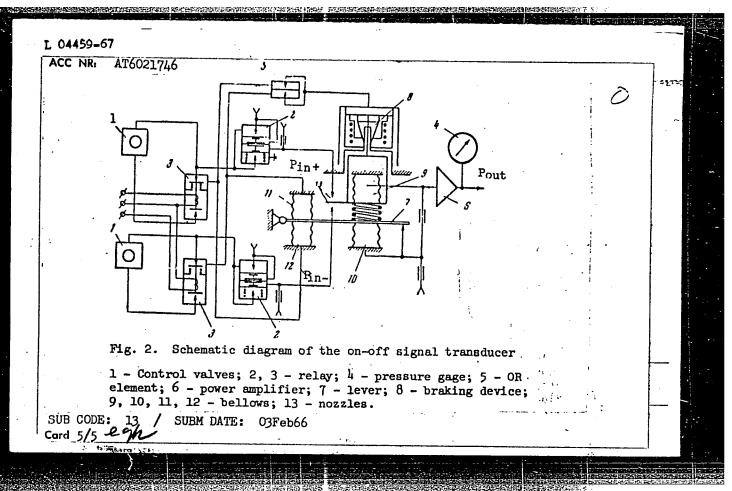
ACC NR: AT6021746

ferential transformer 11. The motion of the transformer plunger is controlled by spring-loaded diaphragm drive 12.

The electropneumatic transducer is equipped with protective nozzles 8 and 9. When the pressure drops below 0.2 kg/cm², nozzle 9 closes and prevents further lowering of the pressure. When the pressure is increased to 1 kg/cm² nozzle 8 opens, thus excluding the possibility of a further increase.

A circuit diagram of a transducer of electric on-off signals is shown in Fig. 2. The signal enters one of the electropneumatic solenoid relays 3 whose core position determines the pneumatic output signal. The system employs a lever-type integrator (lever 7. on which moments of forces beveloped by the four bellows are compared). From relay 3, signals Pinter and Pinter sent to bellows 11 and 12, while positive and negative feedback signals are fed to bellows 9 and 10, respectively. Local control valves 1, together with nozzles 13, maintain the output pressure variation within 0.2-1 kg/cm<sup>2</sup>.

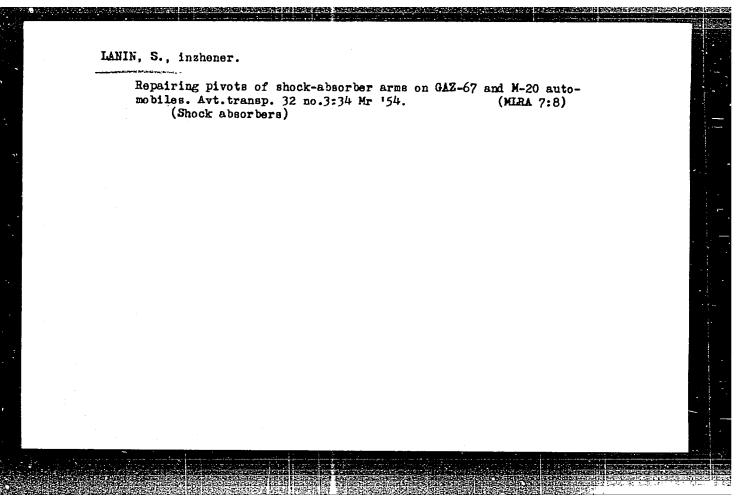
4/5

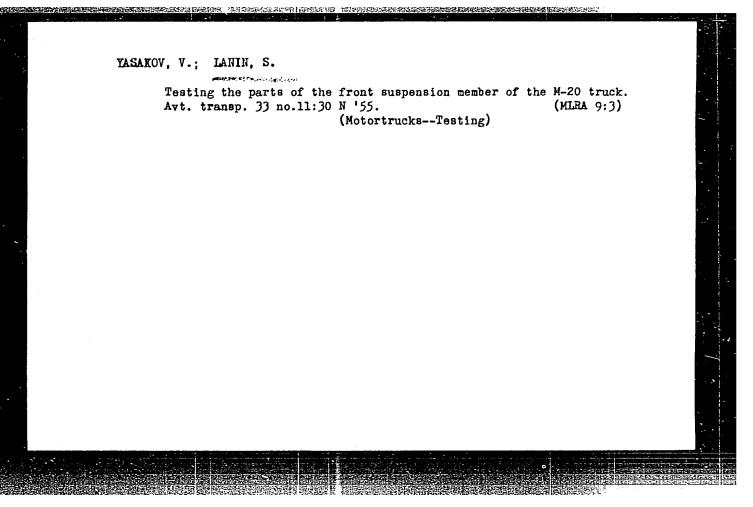


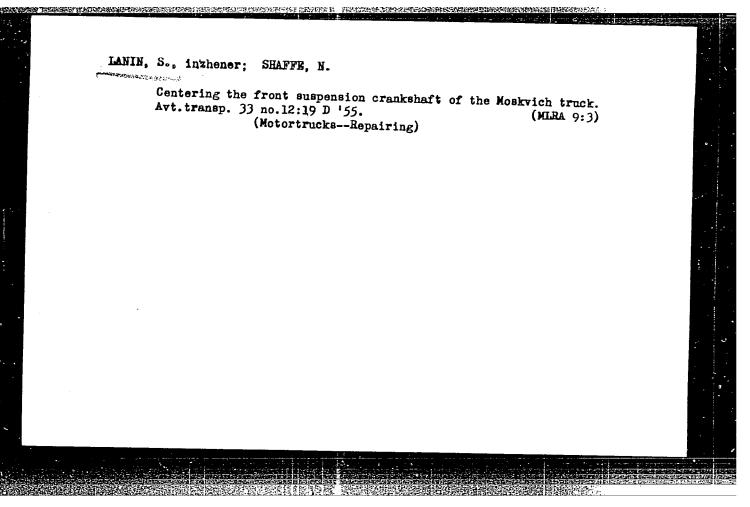
LANIN, Nikolay Nikolayevich, voennyy zhurnalist, kapitan pervogo ranga;
TOKKOV, A.A. red.; KUZ'MIN, I.F., tekhm. red.

[To the land of "Suomi."] V stramu Suomi. Moskva, Voen.izd-vo
M-va obor.SSSR, 1961. 62 p. (MIRA 14:11)

(Finland-Visitors, Russian) (Finland-Description and travel)







LANIN, S.

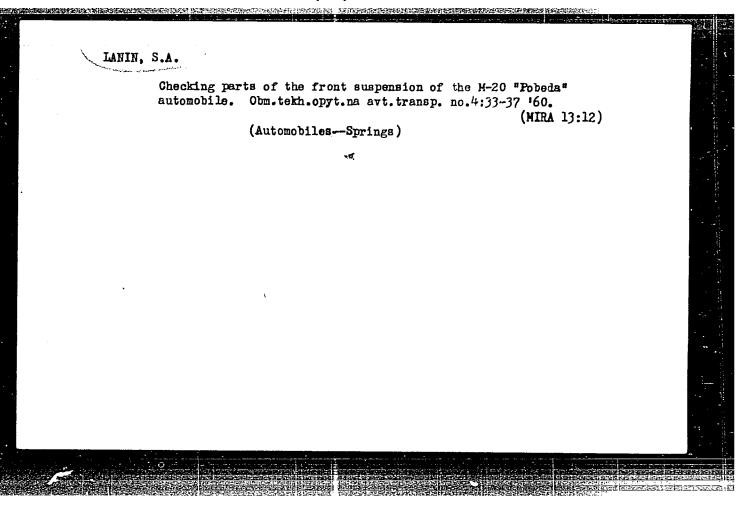
Strengthen the payment discipline of enterprises, Den. i kred. 21 no.12:58-60 D '63. (MIRA 17:1)

1. Upravlyayushchiy Mikhaylovskim otdeleniyem Kurskoy oblastnoy kontory Gosbanka.

YASAKOV, V.P.; LANIN, S.A.

Making a copying device for the machine tool used for grinding came of distributing shafts. Obs. tekh.opyt.na
avt.transp. no.3:48-51 '60. (MIRA 13:7)

(Grinding machines-Numerical control)



DESHRO, Ya.1., inzh.; CHIEMOVICH, V.1., inzh.; HOZENBYYN, Ya.R., inzh.;
LANIK, S.A., inzh.

Devlee for the semiautomatic leading of coment from silts to cement trucks. TSement 30 no.5:18-19 E-0 %. (MRA 17:12)

1. Vsesoyuznoye gosudarstvennoye spetsialincye board for provedenlyu pusko-maladochnykh i proyektno-konstruktorskikh rabet v taementnoy promyshlennosti Gosstroya SSSR.

LANIN, V.; DMITRIYEV, P.

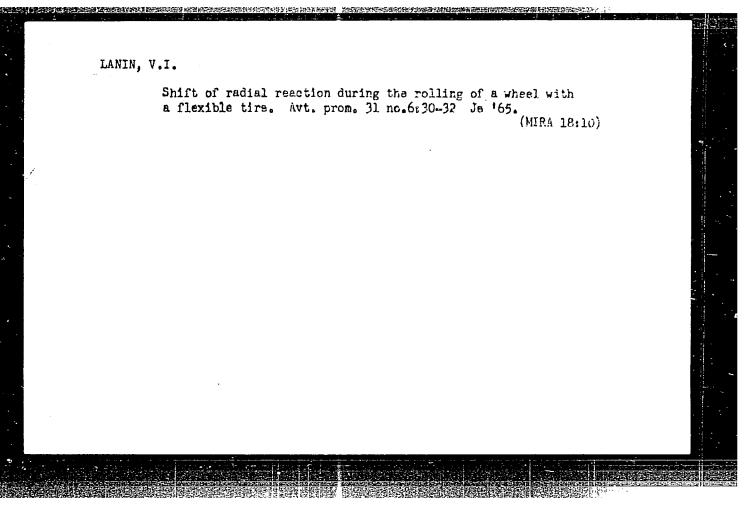
Record of production training. Prof.-tekh. obr. 19 no.9:20-21
S '62. (MIRA 15:10)

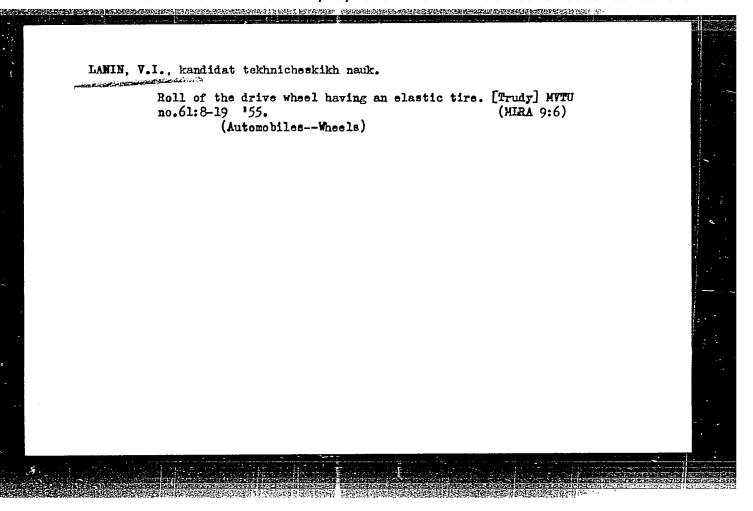
(Farm mechanization-Study and teaching)

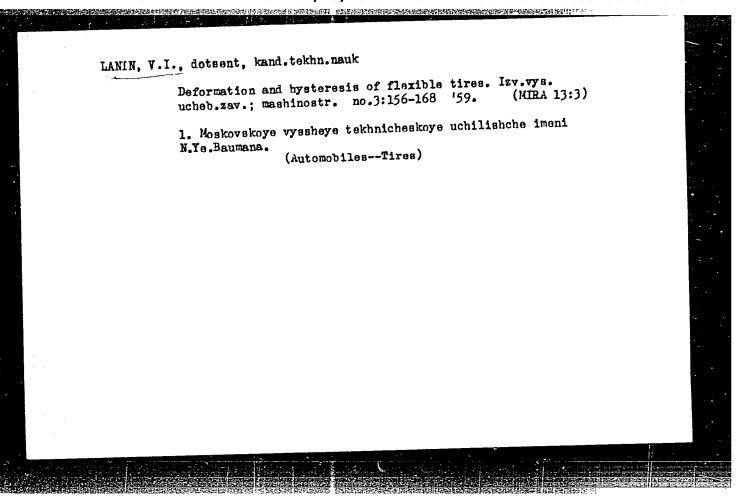
YELISTRATOV, V.P.; BAIASHOV, L.Ye.; LANIN, V.D. (Shcherbakovskaya ul. d. 44-a, Moskwa).

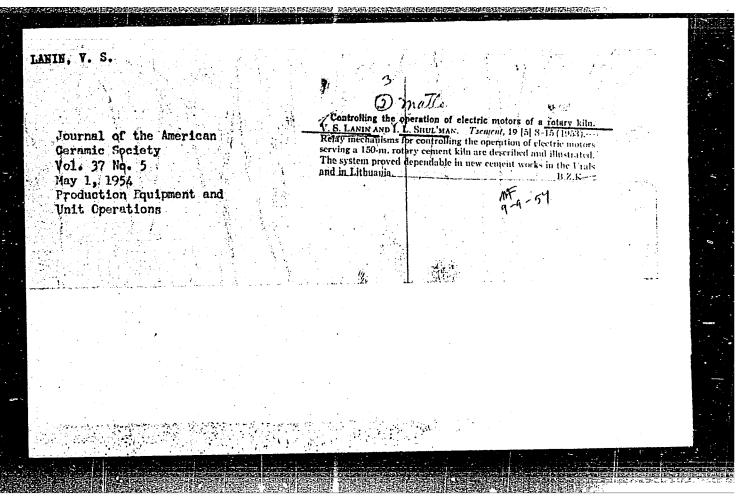
What we demand from architects and builders, Gor, khoz. Mosk. 32 no.2:8-9 F '58. (MIRA 11:1)

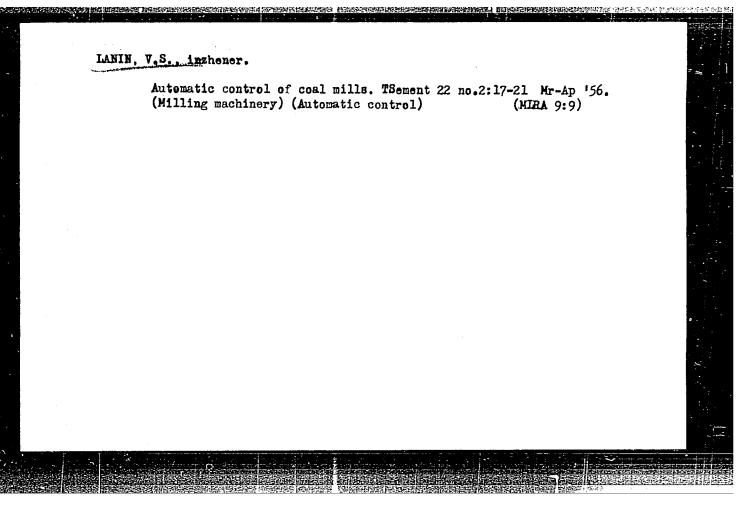
1. Chleny obshchestvennoy komissii sodeystviya pri domoupravlenii. (Moscow-Apartment houses)

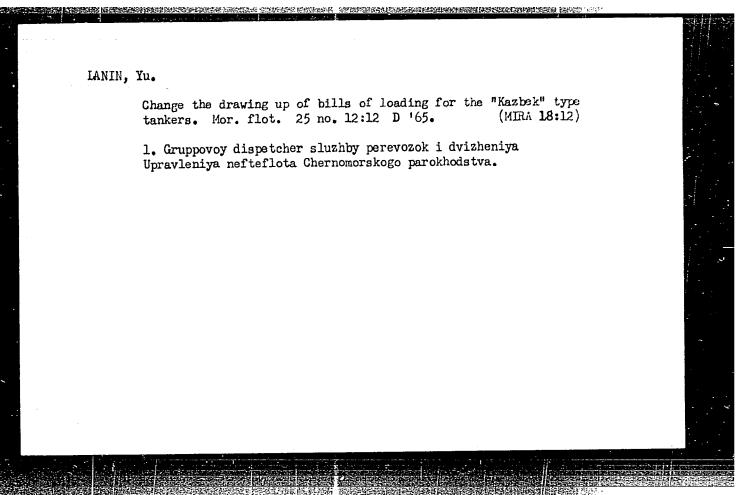












SUBJECT:

SZG/Electric Equipment

101-4-3/13

AUTHOR:

Lanin, V.S., Engineer

TITLE:

"Principles of Construction of Electric Switching Equipment Units in Coment Plant Shops" (Agregatnyy printsip konstruirovaniya tsekhovogo kommutatsionnogo elektrooborudovaniya tsementnykh zavodov)

PERIODICAL:

"Tsement", 1957, #4, pp 15-18 (USSR)

ABSTRACT:

Electric equipment of cement plants is rather complex, and the different types of commutators and safety devices prevent any modification. Therefore, fundamental changes are required in the construction of power distribution facilities.

The following principles should be observed:

1. Standardization of control circuits and means of blocking

and safeguarding wiring.

2. Construction of circuits in the form of standard blocks.

3. Possibility to adapt units for various combinations.

4. Interchangeability and compactness of blocks.

The "BERLIN Plant for Electric Appliances Imeni Stalina" in conjunction with Russian specialists constructed commutator blocks with standard wiring diagrams adapted to the various

Card 1/2

**APPROVED FOR RELEASE: 06/20/2000** 

CIA-RDP86-00513R000928520018-6"

101-4-3/13

TITLE:

"Principles of Construction of Electric Switching Equipment Units in Cement Plant Shops" (Agregatnyy printsip konstruirovaniya tsekhovogo kommutatsionnogo elektrooborudovaniya tsementnykh zavodov)

switching requirements of cement plants. The article contains 4 wiring diagrams.

INSTITUTION:

PRESENTED BY:

SUBMITTED:

AVAILABLE: At

At the Library of Congress

Card 2/2

LAMINA, A. V.

LANIMA, A. V. "The Development of Meat and Dairy Productivity in Cattle of the Kazakh Whitehead Breed." Min Higher Education USSR. Alma-Ata Zooveterinary INst. Alma-Ata, 1955. (DISSERTATION FOR THE DEGREE OF CAMDIDATE IN AGRICULTURAL SCIENCE).

Knizhnava Letonis', . No. 27, July 2, 1955.

USSR/Farm Animals. Cattle

Q-2

Abs Jour : Ref Zhur - Biol., No 19, 1958, No 88037

Author

: Ionina A.V. : Alma-Ata Zooveterinary Institute Inst

: Some Factors in the Transformation of Cattle Title

Orig Pub : Tr. Alma-Atinsk. zoovet. in-ta, 1957, 10, 31-40

Abstract: Under the influence of the conditions of care and growth, and

also conditions of breeding work, two groups of cattle (local x redsteppe, and local x Heregord) differing in type and in orientation of productivity, changed in the sense that their conformation and productivity became nutually similar. The red-steppe breed improved the beer qual-

ities, and the Hereford breed, the dairy qualities.

: 1/1 Card

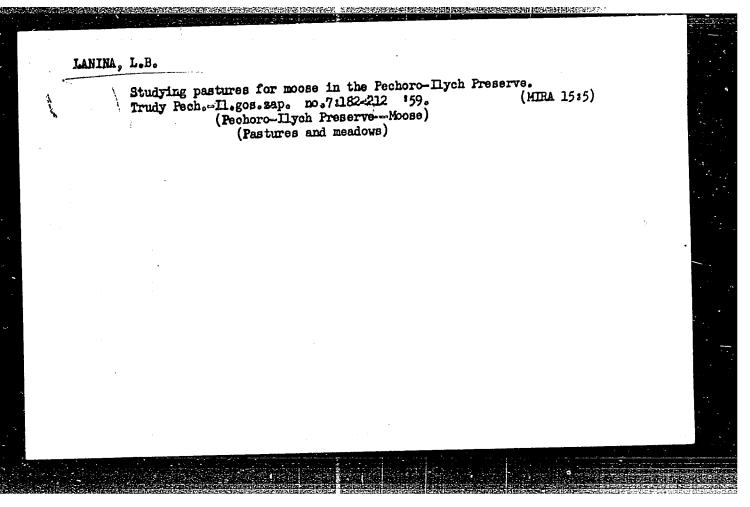
LANINA, A.V., dots.

Selection in beef husbandry. Zhivotnovodstvo 21 no.2:41-49 F '59.
(MIRA 12:3)

1. Zamestitel' direktora Alma-Atinskogo zoovetinstituta.
(Beef cattle)

Lairwi, R. G.

"Geobotanical Characteristics of the orests of the Jartereshkin-Nedveditsa Latershed and Prospects for Their Larroveant and Expansion."
Cand Blol Sci, Saratov State E. Baratov, 1953. (MZhBiol, No.1, Sen 54)
30: Sum 432, 2 Mar 55

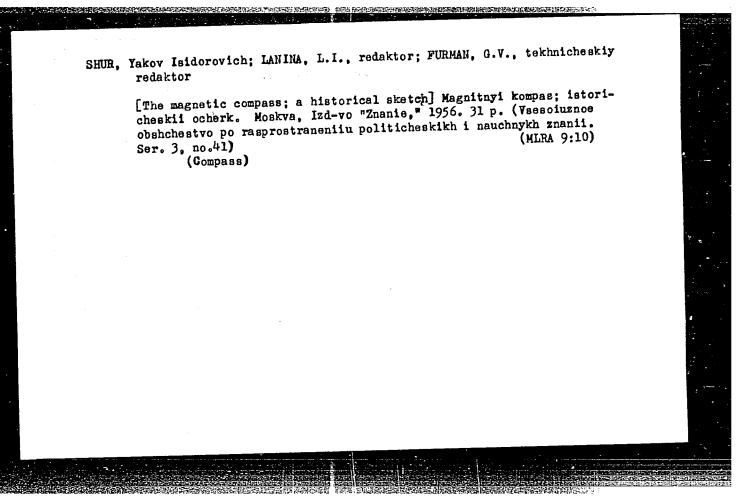


BOGAN, F.Ye.; LANINA, L.B.; MEGAL'SKIY, K.O.; SOKOL'SKIY, S.M.;
YAZAN, Yu.P.; KNORRE, Ye.P.; SOLOV'YEVA, M.Ye., red.;
OPLESNIN, I.I., tekhn. red.

[Reservation in Pechora; popular science sketch] Zapovednik na Pechora; nauchno-populiamnyi ocherk. [By]-F.E.,
Bogan i dr. Syktyvkar, Komi knizhnoe izd-vo, 1963. 114 p.

(Pechora Valley--National parks and reserves)

(Pechora Valley--National parks and reserves)



DAYYDOV, Mitrofan Mikhaylovich; LANINA, L.I., red.; GUBIN, M.I., tekhn.red.

[Prospects for over-all utilization of Siberian water power]

Perspektivy komplekanogo ispol'zovaniia stoka sibirakikh rek. Moskva,

Pad-vo "Znanie," 1957. 31 p. (Vsesoiuznoe obshchestvo po rasprostrane
1zd-vo "Znanie," 1957. 31 p. (Vsesoiuznoe obshchestvo po rasprostrane
1niiu politicheskikh i nauchnykh znanii. Ser.4, no.31) (MIRA 11:1)

(Siberia--Hydroelectric power)

SUSHKOV, Yuriy Mikolayevich; LaNINA, L.I., red.; BERLOV, A.P., tekhn. rcd.

[Atomic energy in aviation] Atomnaia energiia v aviatsii. Moskva,
Izd-vo "Znanie," 1978. 29 p. (Yeseoluznoe obshohestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.4, no.22).

(Atomic planes)

(MIRA 11:10)

PARPENOV, Vesiliy Aleksendrovich, kend.tekhn.neuk; Lanika, L.I., red.; GUBIN, M.I., tekhn.red.

[Metals of progress] Metally progressa. Hoskva, Izd-vo "Znenie," 1958. 31 p. (Yeseoluznoe obshchestvo po resprostreneniiu politicheskikh inauchnykh znanii. Ser.4, no.1) (MIRA 11:2) (Metals)

COLDOVSKIY, Yevsey Mikhaylovich, zasluzhenniy deyatel' nauki i tekhniki, doktor tekhn.nauk, prof.; ZNAPUROVICH, Kirill Petrovich, doktor tekhn.nauk, prof.; LYAPUROV, Boris Valerianovich, inzh.; DOSTUROV, Boris Grigor'yevich, kand.tekhn.nauk; MAQAZANNIN, D.N., red.; LANINA, L.I., red.; BERLOV, A.P., tekhn.red.

[News of science and technology; from the materials of Sunday lectures delivered at the Polytechnical Museum] Novosti nauki i tekhniki; po materialam voskresnykh chtenii Politekhnicheskogo muzeia. Moskva, Izd-vo "Znanie," 1958. 53 p. (Vsesoinzane obshchestvo po rasprostraneniiu politicheskikh i nauchnykh snanii. Ser.4, nos.32/33)

(Motion pictures, Three-dimensional) (Calculating machines)

(Interplanetary voyages)

FINKEL'SHTEYN, David Naumovich, kand.kbimicheskikh nauk; Lanina, L.I., red.;
SAVCHENEO, Ye.V., tekhn.red.

[Synthetic minerals] Iskusstvennye mineraly. Moskva, Izd-vo
"Znante," 1959. 31 p. (Veseoiuznoe obshchestvo po rasprostraneniiu
politicheskikh i nauchnykh znanii. Ser. 4. Nauka i tekhnika, no.3)

(MIRA 12:2)

(Synthetic products) (Mineralogy)

VISHNEVSKIY, Aleksandr Yakovlevich; LANINA, L.I., red.; ATROSHCHENKO, L.Ye., tekhn.red.

[Household electric appliances] Bytovye elektricheskie mashiny i pribory. Moskva, Izd-vo "Znanie," 1959. 43 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.4, Nauka i tekhnika, no.7) (MIRA 12:8) (Electric apparatus and appliances)

MAKSIMOV, Leonid Yur'yevich; LAHIMA, L.I., red.; SAVCHENKO, Ye.V., tekhn.red.

[A tale about automabic mechins] Rasskaz ob avtoretakh. Moakva,
Izd-vo "Ananie," 1959. 45 p. (Vsesoiuznoe obahchestvo po resprostraneniiu politicheskikh i nauchnykh znanii. Sor.10, Molodezhnaia, no.10)

(Automation)

(Automation)

**的服务的现在分词是公司的现在分词的企业的不可能的**的。

LOBANOV, Vitaliy Nikolayevich; CHERNIKOV, Dmitriy Aleksandrovich; LANINA, L.I., red.; NAZAROVA, A.S., tekhn. red.

["Vostok-2" is in space; story on the spaceflight of astronaut G.S.Titov] V kosmose - "Vostok-2"; rasskaz o polete vo vselennuiu letchika-kosmonavta G.S.Titova. Moskva, Izd-vo ": Znanie," 1961.
47 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.10, Molodezhnaia, no.18) (MIRA 14:9)
(Astronautics) (Titov, German Stepanovich, 1935-)

SMOINANITSKIY, Solomon Vladimirovich; LANINA, L.I., red.; RAKITIN, I.T., tekhn. red.

[Itisten, life:] Slushai, zhizn'! Moskva, Izd-vo "Znanie," 1961.
46 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.10, Molodezhnaia, no.24)

(Construction workers)

(Construction workers)

IYASHENKO, Valentin Yefimovich; LANINA, L.I., red.; RAKITIN, I.T., tekhn.
red.

[Always searching] Vsegda v poiske. Moskva, Izd-vo "Znanie,"
1962. 30 p. (Novoe v zhizni, nauke, tekhnike. X Sariia: Molodezhnaia, no.6)

(Agriculture)

(Agriculture)

INAPUNOV, Boris Valerianovich; LANINA, L.I., red.; RAKITIN, I.T., tekhn. red.

[By means of thousands of sense organs] Tysiachami organov chuvstv.
Moskva, Izd-vo "Znanie," 1962. 30 p. (Novoe v zhizni, nauke,
tekhnike. X Seriia: Molodezhnaia, no.2) (MIRA 15:5)
(Scientific apparatus and instruments—Technological innovations)

ULESOV, Aleksey Aleksandrovich, dvazhdy Geroy Sotsialisticheskogo Truda, elektrosvarshchik; LANINA, L.I., red.; NAZAROVA, A.S., tekhn. red.

[Fire in hands] Ogon' v rukakh. Literaturnaia zapis' B.Anina. Moskva, Izd-vo "Znanie," 1962. 30 p. (Novoe v zhizni, nauke, tekhnike. X Seriia: Molodezhnaia, no.l.) (MIRA 15:5) (Electric welding)

GAVRILOV, Yuriy Aleksandrovich; LANINA, L.I., red.; NAZAROVA, A.S., tekhn.
red.

[At the other end of the world; Moscow - Antarctica - Moscow]
Za trideviat' zemel'; Moskva - Antarktida - Moskva. Moskva,
Izd-vo "Znanie," 1962. 47 p. (Novoe v zhizni, nauke, tekhnike.
X Seriia: Molodezhnaia, no.13) (NIRA 15:7)

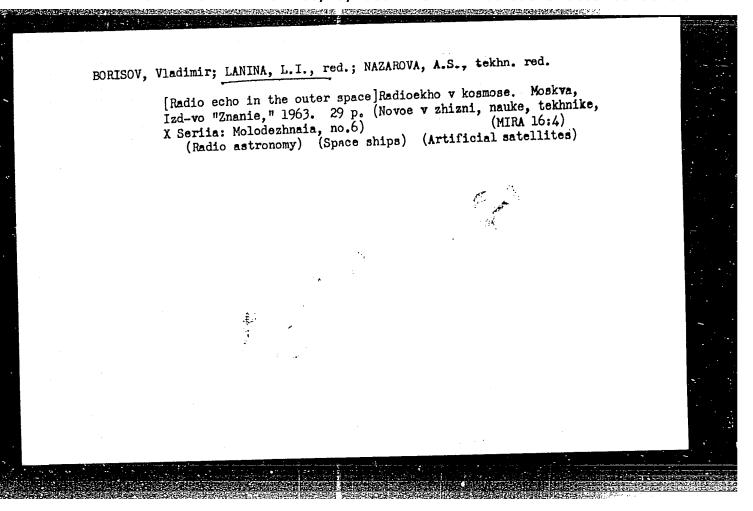
(Antarctic regions)

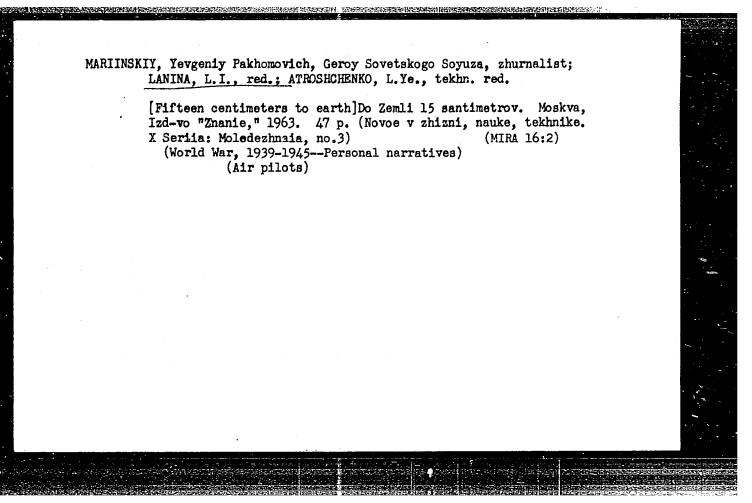
GUTOVSKIY, Vladimir Nikolayevich; LANINA, L.I., red.; RAKITIN, I.T., tekhm. red.

[Contribution of science to power engineering]Nauka - energetike. Moskva, Izd-vo "Znanie," 1962. 38 p. (Novoe v zhizni, nauke, tekhnike. X Seriia: Molodezhnaia, no.23)

(MIRA 15:12)

(Power engineering) (Electric power production)





ANZIMIROV, Georgiy L'vovich; RODIONOV, Feliks Nikolayevich;

LANINA, L.I., red.; RAKITIN, I.T., tekhn. red.

[Good job; travel/...motes made on earth, in the air, and on the ocean] Khoroshała dolzhnost'; putevye zametki, sdelannye na zemle, v vozdukhe i okeane. Moskva, Izd-vo "Znanie," 1963.

47 p. (Novoe v zhiani, nauke, tekhnike. X Seriia: Molodezhnaya, no.?)

(Kamchatka--Description and travel)

KHMARA, Viktor Vasil'yevich; LANINA, L.I., red.; ATROSHCHENKO, L.Ye., tekhn. red.

[Katiusha from the Honshu Island; a report from Japan] Katiusha s ostrowa Khonsiu; reportazh iz IAponii. Moskwa, Izd-wo "Znanie," 1963. 31 p. (Novoe v zhizni, nauke, tekhnike. X Seriia: Molodezhnaia, no.12) (MIRA 16:8)

(Japan-Description and travel)

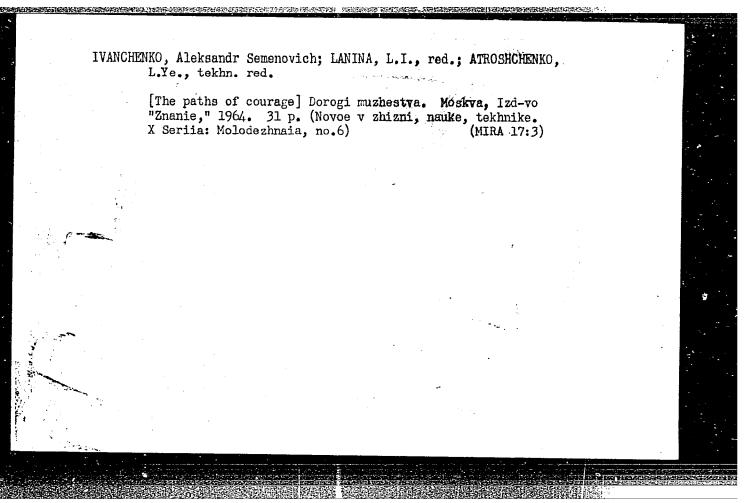
DUEL', Igor' Il'ich; LANINA, L.I., red.; RAKITIN, I.T., tekhn.
red.

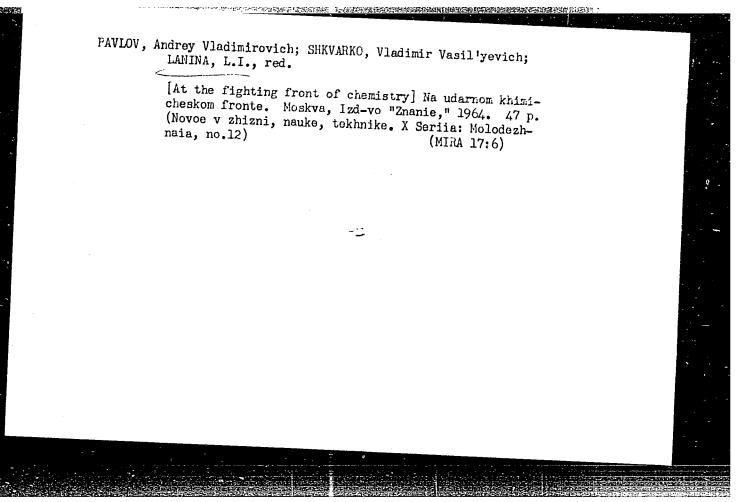
[Second discovery of the ocean] V:oroe otkrytie okeana.
Moskva, Izd-vo "Znanie," 1963. 31 p. (Novoe v zhizni,
nauke, tekhnike. X Seriia: Molodezhnaia, no.24)
(MIRA 17:2)

BABLYUK, Boris Timofeyevich; LANINA, L.I., red.; RAKITIN, I.T., tekhn. red.

[Song of the forest; a documentary tale] Lesnaia pesnia; dokumental naia povest'. Moskva, Izd-vo "Znanie," 1964.
47 p. (Novoe v zhizni, nauke, tekhnike. X Seriia: Molodezhnaia, no.1)

(MIRA 17:1)

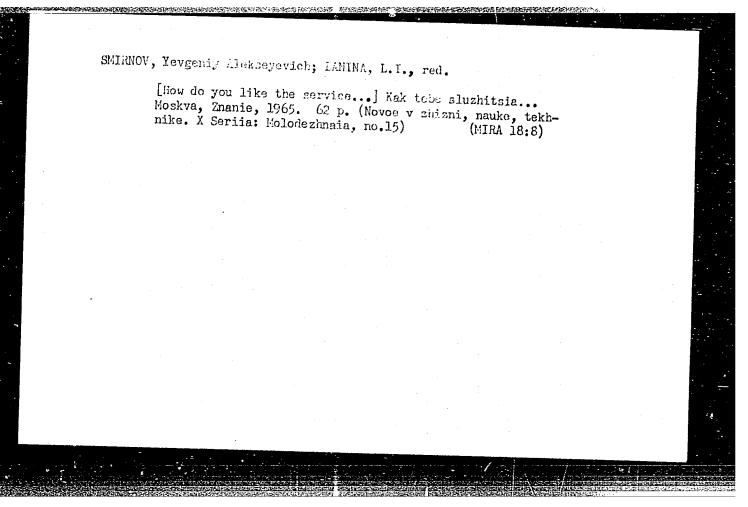




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ZHURAVLEV, Vasiliy Aleksandrovich; KIYASHKO, Fedor Nikolayevich; LANINA, L.I., red.

[Basis of crop yields] Nachalo urozhaia. Moskva, Izd-vo "Znanie," 1965. 45 p. (Novoe v zhizni, nauke, tekhnike. X Seriia: Molodezhnaia, no.6) (MIRA 18:6)



L'VOV, Boris L'vovich; LANINA, L.I., red.

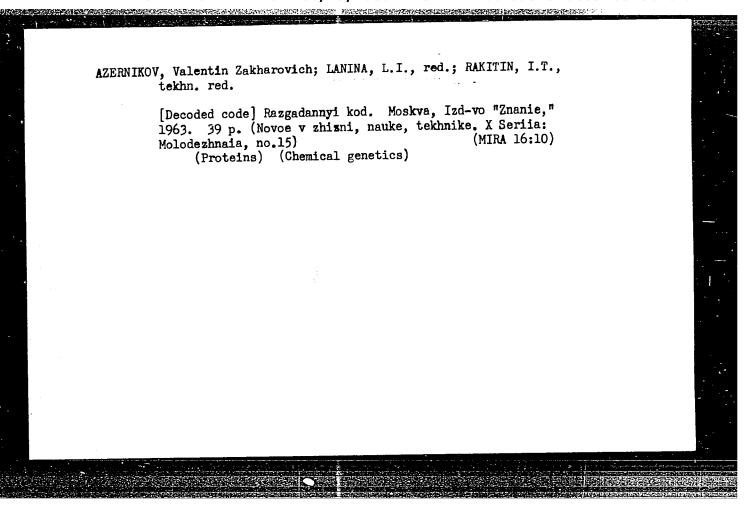
[We are building a house] My stroim dom. Moskva, Znanie, 1965. 44 p. (Novoe v zhizni, nauke, tekhnike.

X. Seriia: Molodezhnaia, no.14) (MIRA 18:7)

RUMER, Mikhail Zalmanovich; LANINA, L.I., red.

[Institute at a plant; Boris Burtsev becomes an engineer]
Institut na zavode; Boris Burtsev stanovitsia inzhenerom.
Moskva. Znanie, 1965. & 6 p. (Novoe v zhizni, nauke, tekhnike. X Seriia: Molodezhnaia, no.18)

(MIRA 18:8)



GORBUNOV, Grigoriy Ivanovich; LANINA, L.I., red.; NAZAROVA, A.S., tekhn. red.

[Virgin land in Stavropol region] Stavropol'skaia nov'.

Moskva, Izd-vo "Znanie," 1963. 39 p. (Novoe v zhizni, nauke, tekhnike. X Seriia: Molodezhnaia, no.10)

(MTRA 16:6)

(Grigoripolisskiy--Agriculture)

KOSTYAYEV, Pavel Sergeyevich; LANINA, L.I., red.; ATROSHCHENKO,
L.Ye., tekhm. red.

[Start of an engineer's career]Nachalo puti inzhenera. Moskva, Izd-vo "Znanie," 1962. 31 p. (Novoe v zhimni, nauke,
tekhnike. X Seriia: Molodezhanaia, no.19) (MIRA 15:10)

(Railroads--Construction) (Bridges, Concrete)

BREMENER, S.M.; VELIKOVSKAYA, M.M.; ZUYEVA, Z.V.; LANINA, N.V.;

TARNOPOL'SKAYA, P.D.

Use of vitamin B6 and B12 in compound treatment of stomach and duodenal ulcer. Vest. AMN SSSR 18 no.2:85-87 '63.

(MIRA 17:5)

1. Nauchno-issledovatel'skiy institut vitaminologii Ministerstva zdravookhraneniya SSSR.

KOLESNIKOVA, T.A.; LAPITEKAYA, O.I.; LANINA, T.N.

Obtaining raw stocks for the production of bivinyl by the selective polymerization of a butane-butylene fraction. Trudy Bash NIINP no.51 (MIRA 17:10)

USER/Scientists - Literature

Gard 1/1 Pub. 124 - 25/32

Authors : Lanins, V. N., Gand. of Philol. Sc.

Title : Memorable dates, Lectures, Conferences

Periodical : Vest. AN SSSR 25/6, 105-106, June 1955

Abstract : Notes are presented from the traditional lectures held at the A. M. Gorkiy Institute of World Literature, honoring the 87-th birthday of the renown Russian-Soviet writer, A. M. Gorkiy.

Institution: .....

Submitted : .....

L 25115-65 EVT(m)/T/EVP(t)/EVP(b) IJP(c) JD/JG ACCESSION NR: AP5003423 S/0181/65/007/001/0123/0126

AUTHORS: Kraftmakher, Ya. A.; Lanina, Ye. B.

TITLE: Energy of vacancy formation and vacancy concentration in platinum  $f^{t}$ 

SOURCE: Fizika tverdogo tela, v. 7, no. 1, 1965, 123-126

TOPIC TAGS: platinum, vacancy formation, vacancy concentration, specific heat, electric resistivity

ABSTRACT: Inasmuch as earlier methods did not yield reliable data on the equilibrium concentration of vacancies in platinum, the authors studied the formation of vacancies by measuring the electric resistivity and the specific heat at high temperatures (1000--2000K). The measurements were made on wires 0.05 mm in diameter and 100-250 mm long. The electric resistance of the samples at high temperatures was determined directly from the radiated power at temperatures above 1500K, and from the quadratic dependence of the residual 1/3

L 25115-65 ACCESSION NR: AP5003423

sistance of the temperature at temperatures between 1000 and 1500K. A modulation method was used to measure the specific heat, as described by one of the authors elsewhere (Kraftmakher, PMTF, no. 5, 176, 1962). The energy of vacancy formation was calculated from the temperature dependence of the increase in electric resistivity and also from the measurements of the specific heat, both methods yiolding the same result. A concentration given by the expression  $c = 90 \exp(-1.6/kT)$  was obtained, reaching 1% at the melting temperature. The additional resistance, connected with the formation of the vacancies, amount to 2.4 microhm-cm for each per cent of vacancies. The results are in satisfactory agreement with related data by others. "The authors thank P. G. Strelkoy for interest in the work and for valuable remarks." Orig. art. has: 3 figures and 3 formulas.

ASSOCIATION: Institut teplofiziki SO AN SSSR, Novosibirsk (Institute of Heat Physics, SO AN SSSR)

Cord 2/3

<u>I: 25115-65</u> ACCESSION NR: AP5003423			
NR REF SOV: 010	OTHER: 020		
Card 3/3			

LANINS, K.

10. Investigation of a high energy jet. Gy. Bozoki, G. Domokes, E. Fenyves, E. Gombesi, K. Lanins, H. W. Moier, A Hagyar Tudomanyos Akademia Kazponli Flzikai Kutato Intezetenek Kozlemenyei—(Proceedings of the Central Research Institute for Physics of the Hungarian Academy of Sciences), Vol. 6, 1958. No. 3, pp. 105-116, 2 figs. 3 tabs.

FOR ABSTRACT-SKE CARD FOR BOZOKI, GY.